NEW ADOBE SYSTEMS CAMPUS

Cache Valley Electric is fast becoming the west's premier contractor for high-tech projects, both within Utah and outside the Intermountain Region. CVE was the perfect fit for the new Adobe high-tech campus. Okland Construction, the project’s general contractor, awarded CVE the electrical construction contract in July 2011 and installation began immediately on this fast-paced project. Substantial completion is scheduled for October 24, 2012.

Adobe's new campus is located on 38 acres in Lehi, Utah. The site features tremendous views with Utah Lake on one side and the Wasatch Mountains on the other. Long term plans for the campus include a number of office buildings on both sides of the site. Current construction includes a 200,000 sq. ft. office building and 80,000 sq. ft. amenities building, connected by a 43-foot glass walled atrium. Both buildings feature floor-to-ceiling windows made of high efficiency glass.

Superintendent Jason Jensen led a team of 72 electricians to install the projects. The building houses two 250Kw UPS systems – one feeding the server room power and one feeding all satellite data closets throughout the building.

CVE’s BIM (3D modeling) expertise was invaluable to the entire coordination and construction process. CVE utilized Autodesk Revit technology to model the facility’s electrical systems, including lights, conduit runs, cable tray, electrical equipment, underground systems and more. The building’s architecture is unique with no traditional ceiling to hold the approximately 1,200 cable-dropped lighting fixtures. Pendants that hold light fixtures are

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CACHE VALLEY ELECTRIC'S LINE DEPARTMENT

Cache Valley Electric’s Line Department was founded in 2009 to specialize in substation construction, as well as distribution and transmission line construction. In the past three years, this group has completed several greenfield and rebuilt substations throughout Utah and the West. Expert linemen are provided for CVE through the IBEW Local Union 57. A 4-year union apprenticeship program, in conjunction with Mountain States Line Constructors, provides skilled apprentices as well.

The Line Department’s clients include PacifiCorp, Rocky Mountain Power, Nucor Steel and municipalities throughout Utah. Scott Collard manages the department and its 30 employees, including 4 electricians, 12 fabricators and 14 linemen.

UTAH GOVERNOIR’S OFFICE OF ECONOMIC DEVELOPMENT (GOED)

The Utah Governor’s Office of Economic Development (GOED) is mandated by Governor Gary Herbert with promoting the state’s economic growth. GOED focuses on recruiting companies to Utah, increasing tourism, encouraging film production, and developing industry “clusters” throughout the state. Cache Valley Electric’s Multimedia department recently completed a project at GOED’s new facility in Salt Lake City’s Eagle Gate College building, where CVE was contracted to help meet GOED’s current and future multimedia needs.

CVE’s scope included the installation of state-of-the-art technology throughout the GOED offices. Multiple 55” Samsung LED commercial displays showcase GOED’s digital signage and other government logos. Cisco HD video teleconferencing provides both site-to-site and multi-site conferencing. Lutron motorized shades are integrated into a Crestron control system to create ambient light control and privacy during meetings or teleconferences.

A robust Crestron control system integrates video conferencing system, projectors, motorized screens, wireless, microphones, LED displays and commercial amplifiers. Each conference room has Crestron analog VGA and digital HDMI A/V connectivity, as well as LED displays for presentations. In addition, GOED also has iPad control of all Crestron technology throughout the facility.

These systems and solutions give the Governor’s Office of Economic Development the perfect technology to showcase Utah, attract new business, and help companies succeed in Utah’s dynamic economy.

MOUNTAIN VIEW CORRIDOR

The Mountain View Corridor (MVC) is a planned freeway in western Salt Lake County and northwestern Utah County, servicing 13 municipalities. The MVC construction team is headed by CHC, a joint venture of Granite Construction, Kiewit Western, and WW Clyde. CHC is using a phased construction approach designed to balance transportation needs with available funding. This plan will address short-term regional transportation needs while providing a long-term solution for the future. In addition, a trail and sidewalk system will be built adjacent to the MVC, providing 21 miles of trails through Salt Lake and Utah Counties.

The first phase of the MVC is a 15-mile, two-lane segment with signalized intersections. Land in the center of the road will be preserved for future expansion. This project was supplemented by a new connection to I-15 in Utah County and an additional transit line. In later phases, existing intersections will be converted to interchanges and inside lanes will be added, creating a 35-mile fully functional freeway.

Cache Valley Electric’s scope of work includes providing 75,000 ft. of signal conduit for new signals at 13 locations, 140+ miles of ATMS (fiber optic), over 6 miles of conduit for dry utilities, 43 large vaults for power and data services, as well as lighting with solar-powered light poles.

Project Manager Mike Maero and Superintendent Billy Loertscher have led a crew of 20 on the MVC project while keeping ahead of schedule. CVE’s superior performance has led to additional opportunities for future underground utility projects. Initial construction began on this project in 2010 and the first phase is scheduled for completion in late 2012.
CVE HOSTED SERVICES OFFERS BACKUP AND DISASTER RECOVERY IN THE CLOUD

Cache Valley Electric proudly presents CVE Hosted Services. Many of our clients are facing exponential data growth, regulatory compliance, increased service level agreements and shrinking backup windows. CVE Hosted Services meets those needs and challenges with next-generation backup and recovery.

CVE provides fast and efficient backup and disaster recovery solutions for your business through a quick, simple way to protect data in the event of a disaster. Powered by EMC’s Avamar, CVE’s Backup as a Service (BaaS) and Disaster Recovery as a Service (DraaS) are equipped with data deduplication technology. This facilitates daily full backups for virtual environments, remote offices, enterprise applications, NAS servers and desktops/laptops. CVE encrypts all data sent between client and hosted servers “in-flight” with AES-256 bit encryption. Our operations center carefully manages all monitoring, alerting and management of offsite data, allowing clients have full data visibility and access while keeping their data safe.

CVE hosts these backup, disaster recovery and archiving solutions at Tonaquint Data Center in Southern Utah. This facility features state-of-the-art security, fire safety, power protection and climate stability, along with robust connectivity and bandwidth services.

Jeremy Budd, CVE Hosted Services Manager, commented, “We are very excited about this new service we can offer our clients. This gives IT teams time to focus on helping their business grow and develop strategic IT projects. This also provides the peace of mind that data is protected in the face of a disaster.” This new arm of CVE will be based from our Salt Lake City office and will offer services to customers on a national level.

AVTEC – SALT LAKE CITY INTERNATIONAL AIRPORT CCTV SYSTEM EXPANSION

Avtec, a division of CVE, was awarded the contract for the CCTV System Expansion Project at the Salt Lake City International Airport. Avtec was selected as the project’s system integrator after a comprehensive evaluation of the Technical Request for Proposal in March 2011.

This project was a successful team effort. Avtec collaborated with other CVE divisions on the design and implementation, including the Electrical Construction Division, the Teledata-Multimedia Division and the Signal and Utility Department.

CVE provided extensive upgrades to the airport’s existing enterprise video system, as well as its electrical and fiber infrastructures. This expansion included an additional 400 cameras, 25 network recorders, 6 system workstations and a new 10Gb network. Infrastructure upgrades involved the installation of 85,000 ft. of Category 6 cable, 28,000 ft. of fiber optic cabling and several thousand feet of both above-ground and underground conduit raceway.

The project was managed by CVE Vice President Mike Petric. Field supervision and implementation for the project was organized by Andy Egbert (Avtec), Elliott Miyia (Avtec), Paul Midgley (ECD), Eric Ward (SUD) and Trinton Thomas (Teledata). The project was accomplished by the efficient and coordinated efforts of 40 CVE team members.

CVE gives special thanks to the Salt Lake City Department of Airports, Engineering, Technical Systems, Operations, Fiber/Data Departments, KR Barker, the JW Group and the TSA for their efforts in support of this successful project.

NEW ADOBE SYSTEMS CAMPUS

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installed on structural elements of the building, making the task of locating points in the structure particularly challenging.

Jordon Gillman, CVE’s building information modeler commented, “We’ve been working in 3D and BIM for a number of years. BIM-driven design phase activities have definitely helped to minimize installation issues in the field. However, we hadn’t found a way to translate the design information between the office and the field with accuracy and speed, until now. Thanks to advancements in field layout technology, our improved BIM-to-field connections have improved communication and drastically reduced our installation time.”

John Krstyen, CVE’s project manager for Adobe remarked, “This project had some unique challenges that we haven’t faced before. The telecom and power conduits needed to be installed where the building crosses over the road. Structural restraints limited the location and area that we could access during this installation, so a detailed plan was required to get these raceways across. In addition, the office area of the project has mostly open ceilings. Our installation work will remain exposed even after the building is complete, so it needed to be of the highest quality and cleanest appearance.”
RECENTLY AWARDED PROJECTS

**AVTEC**
- Academy Mortgage – Salt Lake City, Utah
  - ACS – System Installation
- Ancestry.com – Orem, Utah
  - ACS / VSS System Installation
- Cambia Health – Cottonwood, Utah
  - ACS / VSS System Upgrade
- Iberdrola Renewables – Portland, OR
  - ACS / VSS System Installation
- IRS – Ogden, Utah
  - ACS / VSS System Installation
- IRS – Social Hall – Salt Lake City, Utah
  - ACS / VSS System Installation
- Light Point – Portland, Oregon
  - ACS / VSS System Installation
- Questar Corporate – Salt Lake City, Utah
  - ACS / VSS System Design/Installation
- Salt Lake City Department of Airports – Salt Lake City, Utah
  - CCTV System Expansion
- Woodbury / Westminster Mixed Use – Salt Lake City, Utah
  - ACS – System Installation

**ELECTRICAL CONSTRUCTION DIVISION**

**Logan**
- Agrifarma/Chobani Project – Twin Falls, Idaho
- Air Liquide – Blytheville Arkansas
  - 15kv switch gear
  - UPS upgrade
  - Oil Heaters, control cable
  - Cable tray
  - CT’s and Utility Underground
- Tenaris-Hickman Energy Parking Lot & Access Improvements – Blytheville, Arkansas
  - Tenaris-Hickman Mill 7 Entry PLC Upgrade Electrical installation – Blytheville, Arkansas
  - Tenaris-Hickman Pipe Yard Reorganization – Blytheville, Arkansas
- TKL – Slab Grinder and Baghouse – Calvert, Alabama
- USTAR Bldg, 620 BSL Remodel – Logan, Utah
- US ROMNEY STADIUM LIGHTING MAINTENANCE – Logan, Utah
- USU Dee Glen Smith – Spectrum Scoreboard Upgrade – Logan, Utah
- USU STRENGTH & CONDITIONING FACILITY – Logan, Utah

**Salt Lake City**
- CY1 Data Center – Cheyenne, Wyoming
- Fiber Resiliency Project – SLC Airport – SLC, Utah
- Project Quicksilver Data Center – South Jordan, Utah
- Provo City Center Temple – Provo, Utah
- Front Runner Signal 103BS South – Riverton, Utah
- Heber City Airport – Beacon Project – Heber, Utah
- Living Planet Aquarium – Draper, Utah
- Logan-Cache Airport Apron/Sign Upgrade – Logan, Utah
- Porter Rockwell Road – Herriman, Utah
- UTA On-Call Maintenance Contract – SLC, Utah
- Signals Install-Daybreak Parkway & Kestrel Rise – So. Jordan, Utah
- Western Zirconium – Ongoing Projects – Ogden, Utah
- West Liberty Foods – Ongoing Projects – Tremonton, Utah

**SERVICE DIVISION**

**ACS**
- Data Center – Sandy, Utah
- Lighting Retrofit – Sandy, Utah
- ATK – Bldg. 55 Generator – Magna, Utah
- CSI – Install (2) Netsat Molding Machines – Salt Lake City, Utah
- Dannon – ASRS Expansion – West Jordan, Utah
- Dannon – New Greek Yogurt Line – West Jordan, Utah
- Discover – UPC-Training PC’s – Salt Lake City, Utah

**Dugway**
- Install (2) Generators – Dugway, Utah

**Fidelity Investment**
- Fan Replacement – Salt Lake City, Utah

**FMC**
- Install Camera Systems – Grainger, Wyoming

**IHIC**
- U VRM C -Boiler Plant – Provo, Utah

**International Hotel Group**
- Salt Lake City, Utah

**J.D. Machine**
- New Service – North Ogden, Utah

**Ogden Clinic**
- TVSS & UPS Module – Ogden, Utah

**Pacificorp**
- Naughton - Unit #1 LoNOX – Kemmerer, Wyoming
- SAPA – New Die Ovens – Spanish Fork, Utah

**ViaWest**
- East-UPS-D – Salt Lake City, Utah

**Western Zirconium**
- On-ongoing Projects – Ogden, Utah

**UHA**
- Salt Lake City, Utah

**TECHNOLOGY SERVICES DIVISION**

**Nature’s Sunshine**
- Lehi, Utah

**Nike**
- Portland, Oregon
  - (Wireless project)

**Provo Craft**
- Salt Lake City, Utah

**Rio Tinto**
- KEM C Eagle Facility – So. Jordan, Utah

**Rio Tinto-Borax**
- Greenwood Village, Colorado

**Salt Lake SD**
- Salt Lake City, Utah

**Select Portfolio**
- Salt Lake City, Utah

**State of Utah**
- Salt Lake City, Utah

**USANA**
- Salt Lake City, Utah

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CACHE VALLEY ELECTRIC

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